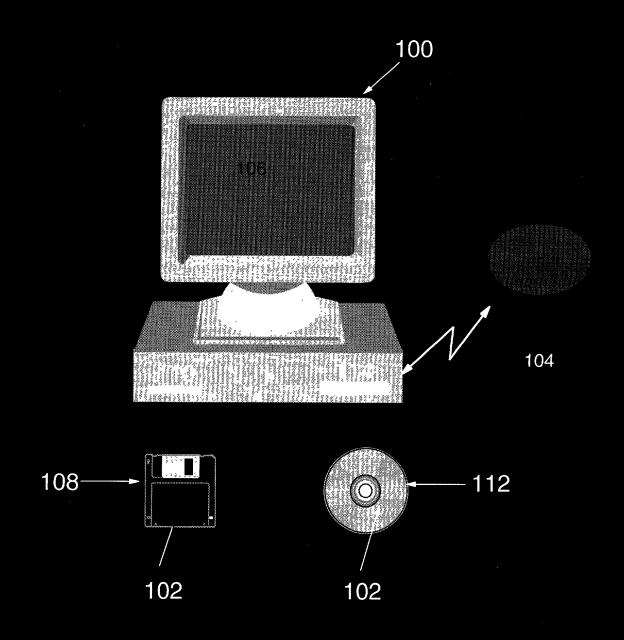
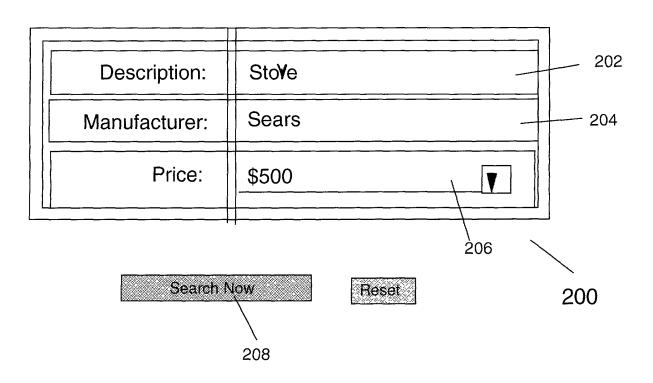
Figure 1



Search Criteria

Fill in **at least** one field. Fill more to narrow your search. Need high speed? Try **Fast Search.**



302

Select

308

T1.x, T2.y

304

From

310

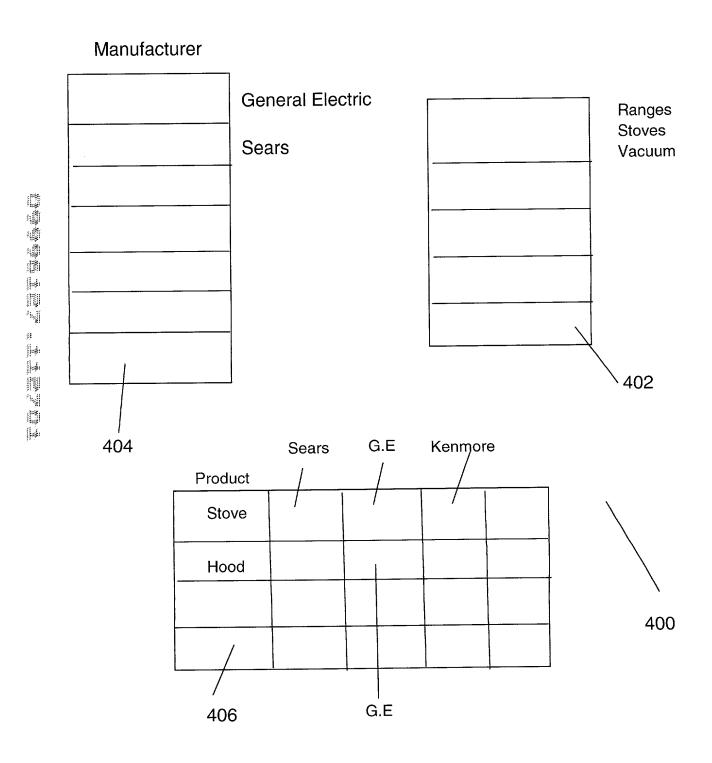
T1, T2

306

Where

312

300



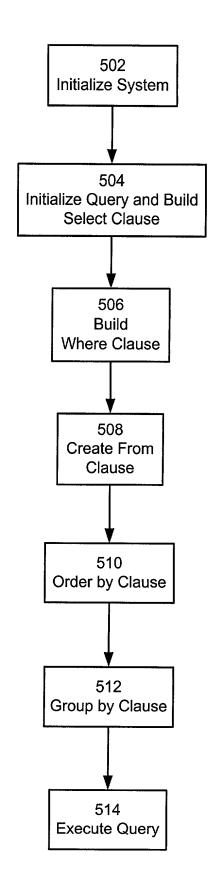
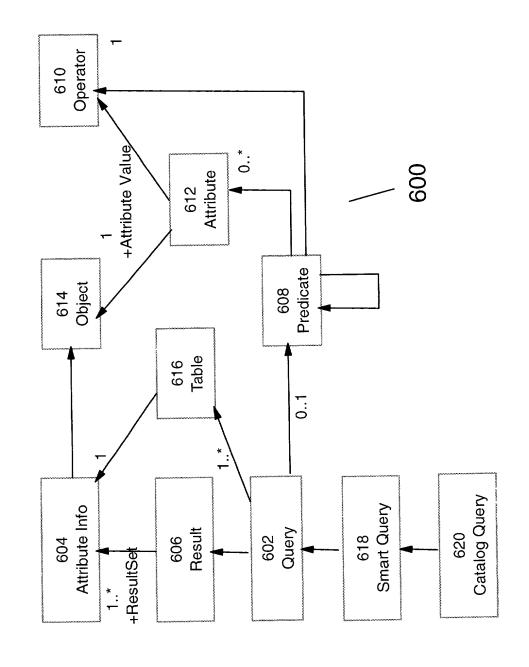
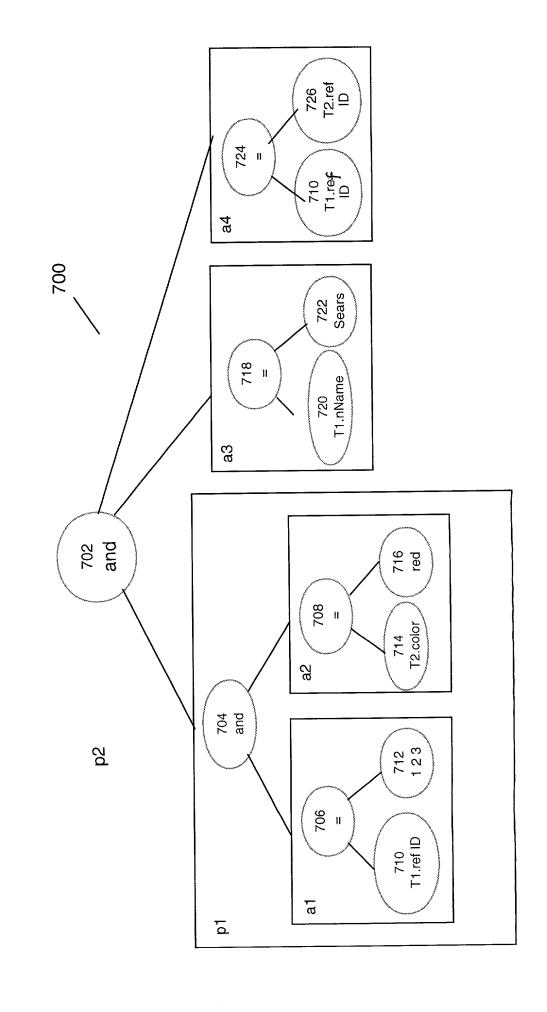


Figure 5 500

Figure 6 Rose Diagram





```
// construct the simple search conditions
       Attribute attr1 = new Attribute (CatRefIdAttributeInfo, Operator.equal, "123");
       Attribute attr2 = new Attribute (ColourttributeInfo, Operator.equal, "red");
       Attribute attr3 = new Attribute (ManufatureAttributeInfo, Operator.equal, "Sears");
802
       Attribute attr4 = new
       Attribute (Cat RefId Attribute Info, Operator. equal, Desc RefId Attribute Info,); \\
       // compose composite search conditions
       Predicate p1 = new Predicate (Operator.and, {attr1, attr2} );
       Predicate p2 = new Predicate (Operator.and, {p1, attr3, attr4});
804
       // execute the query
       Query q = new Query ()
806
       q.setResultSet ({ CatRefIdAttributeInfo, ...}) // result set contains catalog entryId
       q.setPredicate (p2);
808
       result = q.execute ()
```

Figure 9A(i)

904

Figure 9A(ii)

```
// Predicate set
        // Part I
        Predicate p11 = new Predicate ();
                                                908a
        p11.setOperator (Operator.or);
        Attribute a111 = new Attribute (CatGrpDescNameAttributeInfo.getSingleton(), Operator.leftlike,
        "CATEGORY X");
        a111.setUppercaseQualifier(true);
910a
        pll.addOperand (all1);
        Attribute a112 = new Attribute (CatGrpDescNameAttributeInfo.getSingleton(), Operator.leftlike,
        "CATEGORY10");
        a112.setUppercaseQualifier(true);
        p11.addOperand (a112);
                                                908a
        Predicate p12 = new Predicate ();
        p12.setOperator (Operator.and);
        p12.addOperand (new Attribute (ListPriceAttributeInfo.getSingleton(), Operator.gt, "0.0"));
910a
        p12.addOperand (new Attribute (StoreInvQuantityAttributeInfo.getSingleton(), Operator.gt, "0.0"));
        p12.addOperand (new Attribute (InventoryQuantityMeasureAttributeInfo.getSingleton(), Operator.isnull));
        p12.addOperand (p11);
                                                908a
        Predicate p13 = new Predicate ();
        p13.setOperator (Operator.and);
        p13.addOperand (new Attribute (ListPriceAttributeInfo.getSingleton(), Operator.gt, "0.0"));
        p13.addOperand (new Attribute (StoreInvQuantityAttributeInfo.getSingleton(), Operator.gt, "0.0"));
        p13.addOperand (new Attribute (InventoryQuantityMeasureAttributeInfo.get Singleton(),Operator.isnull));
        Attribute a13 = new Attribute (CatGrpDescNameAttributeInfo.getSingleton(), Operator.leftlike,
910a
        "CATEGORY5");
        a13.setUppercaseQualifier(true);
        p13.addOperand (a13);
        Predicate p14 = new Predicate ();
                                                908a
        p14.setOperator (Operator.or);
        p14.addOperand (p12);
910a
        p14.addOperand (p13);
```

Figure 9A(iii)

```
// Part II
        Predicate p21 = new Predicate ();
                                                908b
        p21.setOperator (Operator.or);
        Attribute a211 = new Attribute (CatGrpDescNameAttributeInfo.getSingleton (), Operator.leftlike,
        "CATEGORY Z");
        a211.setUppercaseQualifier(true);
910b
        p21.addOperand (a211);
        Attribute a212 = new Attribute (CatGrpDescNameAttributeInfo.getSingleton (),Operator.leftlike,
        "CATEGORY9");
        a212.setUppercaseQualifier(true);
        p21.addOperand (a212);
                                                908b
        Predicate p22 = new Predicate ();
        p22.setOperator (Operator.and);
        p22.addOperand (new Attribute (ListPriceAttributeInfo.getSingleton(), Operator.gt, "0.0"));
        p22.addOperand (new Attribute (StoreInvQuantityAttributeInfo.getSingleton(), Operator.gt, "0.0"));
910b
        p22.addOperand (new Attribute (InventoryQuantityMeasureAttributeInfo.get Singleton(),Operator.isnull));
        p22.addOperand (p21);
                                                 908b
        Predicate p23 = new Predicate ();
        p23.setOperator (Operator.and);
        p23.addOperand (new Attribute (ListPriceAttributeInfo.getSingleton(), Operator.gt, "0.0"));
        p23.addOperand (new Attribute (StoreInvQuantityAttributeInfo.getSingleton(), Operator.gt, "0.0"));
        p23.addOperand (new Attribute (InventoryQuantityMeasureAttributeInfo.get Singleton(),Operator.isnull));
        Attribute a23 = new Attribute (CatGrpDescNameAttributeInfo.getSingleton(), Operator.leftlike,
910b
        "CATEGORY4"):
        a23.setUppercaseQualifier(true);
        p23.addOperand (a23);
        Predicate p24 = new Predicate ();
                                                 908b
        p24.setOperator (Operator.or);
        p24.addOperand (p22);
910b
        p24.addOperand (p23);
        p24.setNotQualifier(true);
        System.out.println(p24.toString());
```

Figure 9A(iv)

```
// Part IV - Join
Predicate p4 = new Predicate ();
                                    912
p4.setOperator (Operator.and);
p4.addOperand (p14);
p4.addOperand (p24);
p4.addOperand (new Attribute (StoreCEntStoreIdentifierAttributeInfo.getSingleton(), 914
Operator.eq, "2"));
p4.addOperand (new Attribute (UsersIdentifierAttributeInfo.getSingleton(), Operator.eq,
"1001"));
//p4.addOperand (p33);
MCQuery.setPredicate(p4);
                               916
// Join
System.out.println("Auto Join : ");
MCQuery.printJointRelationships();
// Resolve source tables
MCQuery.resolveSourceTables();
                                    918
// ORDER, GROUP and HAVING set
MCQuery.addResultOrder(CatEntryIdentifierAttributeInfo.getSingleton(),
Operator.desc);
System.out.println("MC Query: ");
System.out.println(MCQuery.toString());
com.ibm.commerce.base.objects.Cursor cursor = new
com.ibm.commerce.base.objects.Cursor();
java.util.Vector v = MCQuery.execute(cursor);
                                                  922
System.out.println("MC Query first 10 Result: ")
System.out.println(v);
cursor.increment();
v = MCQuery.execute(cursor);
                                    922
System.out.println("MC Query next 10 Result: ");
System.out.println(v);
}
```

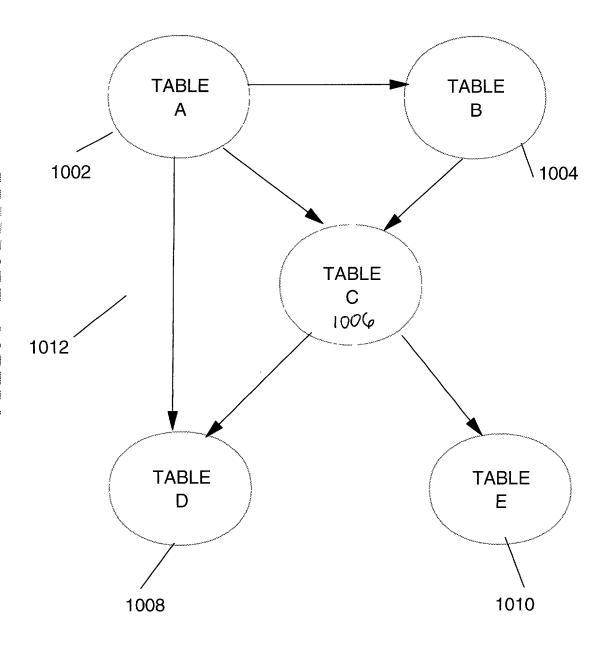
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Figure 9B

```
public void setPredicate(Predicate aPredicate) throws Exception {
        Predicate additionalP = additionalPredicate();
        if (additionalP!= null) {
         Predicate p = new Predicate();
         p.setOperator(Operator.and);
         p.addOperand(aPredicate);
926
         p.addOperand(additionalP);
         setTableJointPredicate(p);
        else
         setTableJointPredicate(aPredicate);
        private void setTablejointPredicate(Predicate aPredicate) throws Exception {
        Predicate jointP = resolveJointPredicate(aPredicate);
        if (jointP != null) {
         Predicate p = new Predicate();
         p.setOperator(Operator.and);
         p.addOperand(aPredicate);
         p.addOperand(jointP);
         super.setPredicate(p);
                                                        930
        else
         super.setPredicate(aPredicate);
```





downstary attended

